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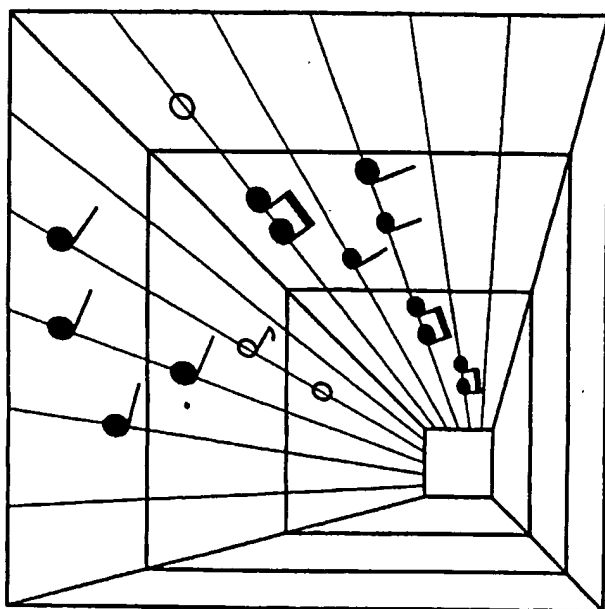
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(54) Title: METHOD AND APPARATUS FOR DISPLAYING MUSICAL DATA IN A THREE DIMENSIONAL ENVIRONMENT



(57) Abstract: A method for displaying musical data in three dimensions includes displaying musical data along a spatial path that does not lie within the image plane of a display. Graphical symbols corresponding to the musical data may be displayed on graphical surfaces aligned with the spatial path. The graphical surfaces form, in some embodiments, a tunnel through which the time axis associated with the musical data runs. The musical data may be manipulated to provide the viewer with the appearance of motion along the time axis associated with the musical data. In some embodiments, the viewer is represented by a virtual camera in the three-dimensional environment and the virtual camera is "moved" to provide the appearance of motion. A corresponding apparatus is also discussed.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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IPC 7 G10H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 13455 A (UNIV ILLINOIS) 18 March 1999 (1999-03-18) page 3, line 3 - line 25 page 6, line 11 - line 22 page 17, line 7 - line 25; figure 1 ---	1-9, 15-21
A	US 5 812 688 A (GIBSON DAVID A) 22 September 1998 (1998-09-22) column 4, line 11 - column 5, line 7; figures 4-6 ---	1,2,7-10
A	US 5 952 599 A (DOUGHERTY TOM ET AL) 14 September 1999 (1999-09-14) column 2, line 4 - line 36 column 5, line 50 - column 6, line 29; figures 6,7 --- -/--	1,2,7-9

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 945 849 A (YAMAHA CORP) 29 September 1999 (1999-09-29)</p> <p>paragraph '0016! - paragraph '0020! paragraph '0057! - paragraph '0059! paragraph '0062! - paragraph '0063!; figure 10</p> <p>----</p>	<p>1-3, 11-16, 19-21</p>
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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